

Mahmudul Hasan Nihad

Software Engineer

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Skills

Languages: C, C++, Dart, Kotlin, Python

Mobile App Development: Native Android (Kotlin), Cross-Platform (Flutter)

Experience

Software Engineer, Annanovas IT Ltd. | October 2024 – August 2025

*Developed **ControlX**, a custom Android Device Policy Controller (DPC) app for enterprise environments.*

Conducted R&D to design policy enforcement, monitoring, and restriction features.

Integrated location, Wi-Fi & multiple sensors for real-time device state & health tracking.

Navigated modern Android permission/security restrictions without system-level privileges.

Applied clean architecture and scalable design patterns through enterprise-grade codebase reviews.

*Contributed to **Becho**, a cross-platform B2B/B2C e-commerce mobile app.*

Delivered pixel-perfect Flutter UI with responsive layouts.

Integrated REST API for product, order, and user management.

Collaborated with a cross-functional team on feature implementation and debugging.

*Contributed to **NVS Client App**, a cross-platform mobile app.*

Implemented and refined Flutter UI to match design specifications across devices.

Worked within an existing codebase, contributing features, bug fixes, and improvements in collaboration with the team.

Competitive Programming

Solved around 500 challenges on prominent platforms such as [UVA](#), [Codeforces](#), [LightOJ](#), and [VJudge](#). Participated in 10+ national-level onsite contests, showcasing dedication to competitive programming.

32nd, 2019 LU IUPC

134th, 2019 ACM-ICPC DHAKA REGIONAL

TEAM NAME: UAP_CODECHEMIST

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Education

BSC. IN COMPUTER SCIENCE & ENGINEERING | University of Asia Pacific March 2017 - May 2025

Awards: CHAMPION 2018 Intra Department Programming Contest University of Asia Pacific, Dhaka.

Relevant Coursework: Data Structure, Algorithm, OOP, Db System, System Analysis and Design, Software Development, Artificial Intelligence, Machine Learning, Industrial Training.

Thesis: [A Deep Learning Based Approach to Image Captioning in Bangla](#)

Abstract: Developed a deep learning Bangla image caption generating model with NLP and Computer Vision.

Key Contributions: Dataset Utilization & Modification: Merged BanglaLekhImageCaptions 9k+ images & translated Flickr 8k

Model Development: Employed ResNet50 feature extracting & LSTM caption generation.

Data Preprocessing: Feature extraction, punctuation removal, sequence tagging & vocabulary encoding.

Training and Evaluation: Achieved satisfactory accuracy using BLEU scores for evaluation.

Impact: Contributed to human-computer interaction, assistive software for the disabled, and surveillance systems.